

GW60 AR(Ahlp Racing) firmware supplementary note V1.3 (FW V1.2A0314A or above)

1. Device Settings:

| Items | Description | Values |
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| RESET DISP | Command to clear top speed records or traveled distance | <ul style="list-style-type: none"> ● ALL ● DISTANCE ● 5 # NSEC ● TOP RSLT |
| AUTO SLEEP | <p>If enabled, the GW60 will go into sleep mode(LCM off) to save power if there is no key pressed for 15 seconds in “TIME NOW” SCREEN.</p> <p>Hold “GPS” key for 2 seconds to go to sleep mode Hold “BACK” key for 2 seconds to exit sleep mode</p> | <ul style="list-style-type: none"> ● X:disabled ● O:enabled |
| BUZZER | Option to control buzzer sound | <ul style="list-style-type: none"> ● X:off ● O:on |
| LOGGER | Option for setting the time interval for GPS data logging. The data is logged in the LOCOSYS SBP format. | <ul style="list-style-type: none"> ● X:no logging ● 1HZ: When speed over [MIN SPEED], log rate in 1Hz ● 5HZ: When speed over [MIN SPEED], log rate in 5Hz ● SMART: [MIN SPEED] ≤ speed < [SPD GENIE] : 1Hz log rate. [SPD GENIE] ≤ speed : 5Hz log rate |
| MIN SPD | Option for setting the minimum speed for GPS data | Available value: 0 to 15 [UNIT]. |

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| | logging. The system will log points only when the current speed is above this value. The minimum speed is valid only if [LOGGER] is enabled. | |
| UNIT | Speed measurement unit. | <ul style="list-style-type: none"> ● KM : Kilometer(KMH) ● MI : Mile(MPH) ● NM : Nautical mile(KNOT) |
| GMT | GMT/Time zone, e.g. +8:00 for Taipei. | Available value: GMT-12:00 to +13:00. |
| AVG NSEC | Time interval for speed averaging. | Available value: 1 sec to 60 sec. Default 10 seconds |
| AVG MSEC | Time interval for speed averaging. | Available value: 1 sec to 60 sec. Default 2 seconds |
| SPD GENIE | Speed threshold for auto-speed result report. | Available value: 0 to 63 [UNIT]. |
| ACT SPD | Option for selecting speed display type in “ACTION SPEED” screen | Available speed types: SPEED,MAX,NSEC,MSEC,&500,100M,250M,500M |
| RSLT1A~ RSLT4B | <p>Speed result selection options(Screen 1~4). These are 4 speed genie windows that scroll around for speed results at end of a speed genie cycle. Each window has two sub-screens: A(top half)and B(bottom half). Each window has two possibilities, a split screen showing two results in small font, or a single display of one result in big font. To achieve the big font single display set A and B to the</p> | <p>Each screen can assign one or two of the following speed types:</p> <ul style="list-style-type: none"> ● MAX: maximum speed ● NSEC: N-second average speed(N=[AVG NSEC]) ● MSEC: M-second average speed(M=[AVG MSC]) ● &500: Alpha 500 meter run ● 100M:100 meter run ● 250M: 250 meter run ● 500M: 500 meter run |

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| | same category(speed type) for that screen number. To achieve the split screen set A and B to different categories for that screen number. | <ul style="list-style-type: none"> ● TOP (RSLT1B~RSLT4B): history max speed ● X (RSLT3B~RSLT4B): screen disabled |
| DIST UNIT | Distance measurement unit. | <ul style="list-style-type: none"> ● KM : Kilometer. ● MI : Mile. ● NM : Nautical mile. |
| RSLT DIST | Option to include “DISTANCE” screen in speed result report(Screen 5). | <ul style="list-style-type: none"> ● X:disabled ● O:enabled |
| RSLT TIME | Option to include “TIME” screen in speed result report(Screen 6). | <ul style="list-style-type: none"> ● X:disabled ● O:enabled |
| SCROLL | Option to set scroll time of speed report | Available value: 1,1.5,2,2.5 sec. |
| USB CLASS | USB connection type | <ul style="list-style-type: none"> ● COM: Virtual COM PORT type for Windows platform users. ● UMS: USB Mass Storage type for non-Windows platform users |
| TO USB MSC | Connection by Mass Storage Class (MSC) mode mainly for non-Windows platform user. | <p>To get GPS data in USB MSC mode :</p> <p>(1) Set [USB CLASS] option to [UMS] first. (2) Connect to USB, and select “TO USB MSC”to enter USB MSC state.</p> <p>(3) Find a new flash drive with a READ only file—GPSLOG.SBP on your host PC.</p> <p>(4) Remove USB cable to exit.</p> |

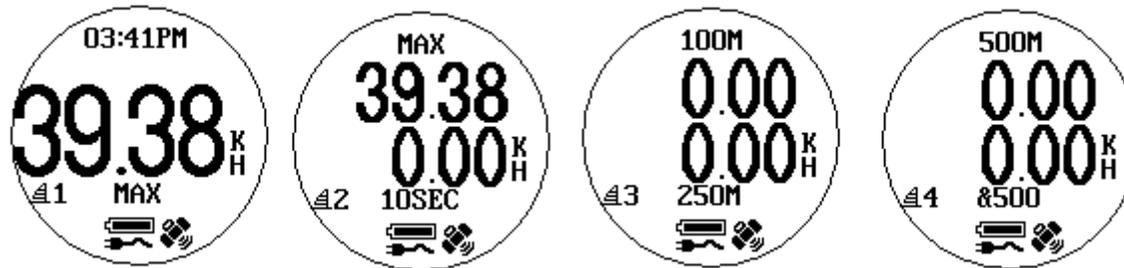
| | | |
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| SCREEN FLIP | Option to display screen upside down. | <ul style="list-style-type: none"> ● X:off ● O:on |
| TIME FMT | Option to select time format for display | <ul style="list-style-type: none"> ● 12H:AM/PM ● 24H |
| VERSION INFO | Device information | Firmware Version: VX.XXXXXXX User Name: XXXXXX Serial Number: SXXXXXXXXX GPS Version: XXXX |

* In “ACT SPEED” screen , users can access “STOPWATCH” and “TIMER” functions by pressing “MODE” key

2. Speed result setting example:

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|--------------|-------------|-------------|--------------|
| RSLT1A=MAX | RSLT2A=MAX | RSLT3A=100M | RSLT4A=500M |
| RSLT1B=MAX | RSLT2B=NSEC | RSLT3B=250M | RSLT4B=&500M |
| RSLT DIST=X | RSLT TIME=X | | |
| AVG NSEC=10S | AVG MSEC=2S | | |

The speed result screens will include:



3. How to set up for Alpha Racing:

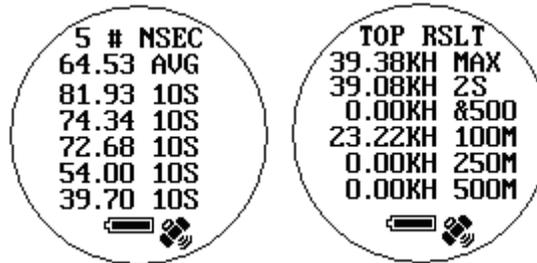
- a) Set up SPEED GENIE threshold speed to the value of the lowest speed that you anticipate in your Alpha 500 trials
- b) Set ACT SPD = &500 to see your best Alpha 500 result on the water every time you look at GW60 screen.

4. Due to internal buffer limitation, there is a minimum-average-speed requirement for each speed result displayed by GW60

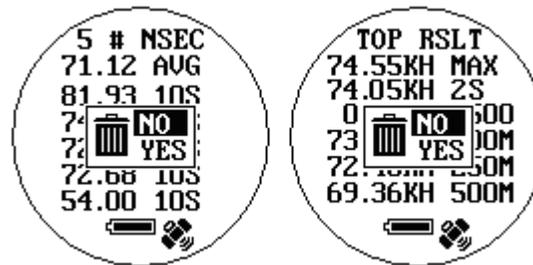
- NSEC: no limitation
- &500: $\geq 18\text{KMH}$ (500M), 10.8KMH (300M)
- 100M: $\geq 3.6\text{KMH}$
- 250M: $\geq 9\text{KMH}$
- 500M: $\geq 18\text{KMH}$

If the average speed for a run is below the minimum speed required, the run result will not be displayed on GW60.

5. Speed summary result screens (in GPS Mode):



Press “ADJUST” key to clear summary result:



6. For detailed key operation, please refer to “GW60 Quick Start Guide” (<http://www.locosystech.com/download.php?fid=328>)